



IFWO

RAW SEQUENCE LISTING

DATE: 09/17/2004

PATENT APPLICATION: US/10/756,825

TIME: 12:11:18

Input Set : A:\I1105041.app

Output Set: N:\CRF4\09172004\J756825.raw

3 <110> APPLICANT: LU, YI
 4 LIU, JUEWEN
 6 <120> TITLE OF INVENTION: BIOSENSORS BASED ON DIRECTED ASSEMBLY OF PARTICLES
 8 <130> FILE REFERENCE: ILL05-041-US
 10 <140> CURRENT APPLICATION NUMBER: 10/756,825
 11 <141> CURRENT FILING DATE: 2004-01-13
 13 <160> NUMBER OF SEQ ID NOS: 16
 15 <170> SOFTWARE: PatentIn Ver. 3.2
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 33
 19 <212> TYPE: DNA
 20 <213> ORGANISM: Artificial Sequence
 22 <220> FEATURE:
 23 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 24 oligonucleotide
 26 <400> SEQUENCE: 1
 27 catctcttct ccgagccggt cgaaatagtg agt 33
 30 <210> SEQ ID NO: 2
 31 <211> LENGTH: 20
 32 <212> TYPE: DNA
 33 <213> ORGANISM: Artificial Sequence
 35 <220> FEATURE:
 36 <223> OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
 37 Synthetic oligonucleotide
 39 <220> FEATURE:
 40 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 41 oligonucleotide
 43 <220> FEATURE:
 44 <221> NAME/KEY: modified_base
 45 <222> LOCATION: (10)
 46 <223> OTHER INFORMATION: Any single ribonucleotide
 48 <400> SEQUENCE: 2
 W--> 49 actcactatn ggaagagatg 20
 52 <210> SEQ ID NO: 3
 53 <211> LENGTH: 4
 54 <212> TYPE: DNA
 55 <213> ORGANISM: Artificial Sequence
 57 <220> FEATURE:
 58 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 59 nucleotide variable region
 61 <400> SEQUENCE: 3
 62 tatt 4
 65 <210> SEQ ID NO: 4



RAW SEQUENCE LISTING

DATE: 09/17/2004

PATENT APPLICATION: US/10/756,825

TIME: 12:11:18

Input Set : A:\I1105041.app

Output Set: N:\CRF4\09172004\J756825.raw

```

66 <211> LENGTH: 19
67 <212> TYPE: DNA
68 <213> ORGANISM: Artificial Sequence
70 <220> FEATURE:
71 <223> OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
72     Synthetic oligonucleotide
74 <220> FEATURE:
75 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
76     oligonucleotide
78 <220> FEATURE:
79 <221> NAME/KEY: modified_base
80 <222> LOCATION: (11)
81 <223> OTHER INFORMATION: Any single ribonucleotide
83 <400> SEQUENCE: 4
W--> 84 gactcactat nggaagaga                                19
87 <210> SEQ ID NO: 5
88 <211> LENGTH: 38
89 <212> TYPE: DNA
90 <213> ORGANISM: Artificial Sequence
92 <220> FEATURE:
93 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
94     oligonucleotide
96 <400> SEQUENCE: 5
97 tctcttctcc gagccggtcg aaatattgga ggaagctc                38
100 <210> SEQ ID NO: 6
101 <211> LENGTH: 22
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
107     oligonucleotide
109 <400> SEQUENCE: 6
110 gagctggagg aaaaagtgag tc                                22
113 <210> SEQ ID NO: 7
114 <211> LENGTH: 43
115 <212> TYPE: DNA
116 <213> ORGANISM: Artificial Sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
120     Synthetic oligonucleotide
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
124     oligonucleotide
126 <220> FEATURE:
127 <221> NAME/KEY: modified_base
128 <222> LOCATION: (23)
129 <223> OTHER INFORMATION: Any single ribonucleotide
131 <400> SEQUENCE: 7
W--> 132 actcatctgt gagactcact atnggaagag atgtcaactc gtg        43

```

RAW SEQUENCE LISTING

DATE: 09/17/2004

PATENT APPLICATION: US/10/756,825

TIME: 12:11:18

Input Set : A:\I1105041.app

Output Set: N:\CRF4\09172004\J756825.raw

```

135 <210> SEQ ID NO: 8
136 <211> LENGTH: 38
137 <212> TYPE: DNA
138 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
142     oligonucleotide
144 <400> SEQUENCE: 8
145 tctcttctcc gagccggtcg aaatattgga ggaagctc          38
148 <210> SEQ ID NO: 9
149 <211> LENGTH: 22
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
155     oligonucleotide
157 <400> SEQUENCE: 9
158 gagctggagg aaaaagtgag tc          22
161 <210> SEQ ID NO: 10
162 <211> LENGTH: 21
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
168     Synthetic oligonucleotide
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
172     oligonucleotide
174 <220> FEATURE:
175 <221> NAME/KEY: modified_base
176 <222> LOCATION: (11)
177 <223> OTHER INFORMATION: Any single ribonucleotide
179 <400> SEQUENCE: 10
W--> 180 actcactata nggaagagat g          21
183 <210> SEQ ID NO: 11
184 <211> LENGTH: 12
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
190     oligonucleotide
192 <400> SEQUENCE: 11
193 cacgagttga ca          12
196 <210> SEQ ID NO: 12
197 <211> LENGTH: 45
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Description of Combined DNA/RNA Molecule:

```

RAW SEQUENCE LISTING

DATE: 09/17/2004

PATENT APPLICATION: US/10/756,825

TIME: 12:11:18

Input Set : A:\I1105041.app

Output Set: N:\CRF4\09172004\J756825.raw

```

203      Synthetic oligonucleotide
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
207      oligonucleotide
209 <220> FEATURE:
210 <221> NAME/KEY: modified_base
211 <222> LOCATION: (22)
212 <223> OTHER INFORMATION: Any single ribonucleotide
214 <400> SEQUENCE: 12
W--> 215 tgtcaactcg tgactcacta tnaggaagag atgtgtcaac tcgtg      45
218 <210> SEQ ID NO: 13
219 <211> LENGTH: 44
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
225      Synthetic oligonucleotide
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
229      oligonucleotide
231 <220> FEATURE:
232 <221> NAME/KEY: modified_base
233 <222> LOCATION: (24)
234 <223> OTHER INFORMATION: Any single ribonucleotide
236 <400> SEQUENCE: 13
W--> 237 actcatctgt gagactcact atanggaaga gatgtcaact cgtg      44
240 <210> SEQ ID NO: 14
241 <211> LENGTH: 50
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
247      oligonucleotide
249 <400> SEQUENCE: 14
250 cacgagttga catctcttct ccgagccggt cgaaatattg gaggaagctc      50
253 <210> SEQ ID NO: 15
254 <211> LENGTH: 34
255 <212> TYPE: DNA
256 <213> ORGANISM: Artificial Sequence
258 <220> FEATURE:
259 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
260      oligonucleotide
262 <400> SEQUENCE: 15
263 gagctggagg aaaaagtgag tctcacagat gagt      34
266 <210> SEQ ID NO: 16
267 <211> LENGTH: 28
268 <212> TYPE: DNA
269 <213> ORGANISM: Artificial Sequence
271 <220> FEATURE:

```

RAW SEQUENCE LISTING

DATE: 09/17/2004

PATENT APPLICATION: US/10/756,825

TIME: 12:11:18

Input Set : A:\I1105041.app

Output Set: N:\CRF4\09172004\J756825.raw

272 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
273 oligonucleotide
275 <400> SEQUENCE: 16
276 tctcttccat tttttttaat agtgagtc 28

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/756,825

DATE: 09/17/2004
TIME: 12:11:19

Input Set : A:\I1105041.app
Output Set: N:\CRF4\09172004\J756825.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 10
Seq#:4; N Pos. 11
Seq#:7; N Pos. 23
Seq#:10; N Pos. 11
Seq#:12; N Pos. 22
Seq#:13; N Pos. 24

VERIFICATION SUMMARY

PATENT APPLICATION: **US/10/756,825**

DATE: 09/17/2004

TIME: 12:11:19

Input Set : **A:\I1105041.app**

Output Set: **N:\CRF4\09172004\J756825.raw**

L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0